

```
=> d que stat l11
L3      1 SEA FILE=REGISTRY ABB=ON  SODIUM HYDROXIDE/CN
L4      2 SEA FILE=REGISTRY ABB=ON  (TARTARIC ACID OR CITRIC ACID)/CN
L7      2147 SEA FILE=HCAPLUS ABB=ON  (L3 OR ?SODIUM?(W)?HYDROXIDE?) AND
      (L4 OR (?TARTARIC? OR ?CITRIC?) (W)?ACID?)
L9      10 SEA FILE=HCAPLUS ABB=ON  L7 AND (?PRETREAT? OR ?TEST?) (W)KIT?
L11     1 SEA FILE=HCAPLUS ABB=ON  L9 AND ?SALIVA?
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=> d ibib abs l11
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L11 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:200141 HCAPLUS

DOCUMENT NUMBER: 140:232110

TITLE: **Pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatography**

INVENTOR(S): Tachino, Atsushi

PATENT ASSIGNEE(S): GC Corporation, Japan

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1396726	A1	20040310	EP 2003-18719	20030825
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004101345	A2	20040402	JP 2002-262838	20020909
US 2004106096	A1	20040603	US 2003-645540	20030822
NZ 528008	A	20050324	NZ 2003-528008	20030903
CN 1492230	A	20040428	CN 2003-159144	20030909
PRIORITY APPLN. INFO.:			JP 2002-262838	A 20020909

AB A **pretreatment kit** and a pretreatment method for **saliva** in identification and quant. determination of mutans streptococci by immunochromatog. utilizing an antigen-antibody reaction, which can remove aggregation caused by mucin and chain formation of mutans streptococci in **saliva** in a simple operation and can efficiently flow out a complex of a labeled antibody and mutans streptococci from a porous membrane retaining the labeled antibody, contains (A) a 0.01 to 10 mol/L aqueous solution of **sodium hydroxide**, (B) a 0.01 to 3 mol/L aqueous solution of **tartaric acid** and/or **citric acid**, and (C) a nonionic surface active agent and/or an amphoteric surface active agent, in which the component (C) is mixed with the components (A) and/or (B), or is provided sep., and at least one substance selected from the particular metallic salts is contained in at least one of the components (A), (B) and (C) in an amount of 5 to 25% by weight

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d que stat 112

L3 1 SEA FILE=REGISTRY ABB=ON SODIUM HYDROXIDE/CN
 L4 2 SEA FILE=REGISTRY ABB=ON (TARTARIC ACID OR CITRIC ACID)/CN
 L7 2147 SEA FILE=HCAPLUS ABB=ON (L3 OR ?SODIUM?(W)?HYDROXIDE?) AND
 (L4 OR (?TARTARIC? OR ?CITRIC?)(W)?ACID?)
 L9 10 SEA FILE=HCAPLUS ABB=ON L7 AND (?PRETREAT? OR ?TEST?)(W)KIT?
 L11 1 SEA FILE=HCAPLUS ABB=ON L9 AND ?SALIVA?
 L12 1 SEA L11

=> d ibib abs 112 1-1

L12 ANSWER 1 OF 1 JAPIO (C) 2005 JPO on STN
 ACCESSION NUMBER: 2004-101345 JAPIO
 TITLE: **SALIVA PRETREATMENT KIT**
 AND **SALIVA** PRETREATMENT METHOD
 INVENTOR: TATENO ATSUSHI
 PATENT ASSIGNEE(S): GC CORP
 PATENT INFORMATION:

PATENT NO	KIND	DATE	ERA	MAIN IPC
JP 2004101345	A	20040402	Heisei	G01N033-48

APPLICATION INFORMATION

STN FORMAT: JP 2002-262838 20020909
 ORIGINAL: JP2002262838 Heisei
 PRIORITY APPLN. INFO.: JP 2002-262838 20020909
 SOURCE: PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined
 Applications, Vol. 2004

AN 2004-101345 JAPIO

AB PROBLEM TO BE SOLVED: To provide a **saliva pretreatment kit** that eliminates an aggregation by the chain of mucine and Mutans streptococci in **saliva** by a simple method in the identification/determination of the Mutans streptococci using an immunity chromatography method and enable an efficient flow into a membrane where the complex of a labeled antibody and the Mutans streptococci retains the labeled antibody, and a **saliva** pretreatment method.
 SOLUTION: The **saliva pretreatment kit** comprises: 0.01-10mol/l **sodium hydroxide** solution (A); 0.01-3mol/l **tartaric acid** and/or **citric acid** solution (B); and a non-ionic surface active agent and/or an amphoteric surface active agent (C). The **saliva pretreatment kit** is utilized for pretreating **saliva**. In the **saliva pretreatment kit**, a C constituent is mixed with at least one of A and B constituents or is composed apart from the A and B constituents, and at least one kind of substance selected from a group of specific metallic salts of 5-25wt.% is contained in at least one of the A, B, and C constituents.
 COPYRIGHT: (C)2004,JPO

=> d que stat 117

L6 2 SEA FILE=REGISTRY ABB=ON (CHAPS/CN OR CHAPSO/CN)
 L13 195 SEA FILE=USPATFULL ABB=ON L6
 L14 19 SEA FILE=USPATFULL ABB=ON L13 AND ?SURF? (W) ?ACTIV?
 L16 6 SEA FILE=USPATFULL ABB=ON L14 AND ?AMPHOTER?
 L17 5 SEA FILE=USPATFULL ABB=ON L16 AND (PRD<20020909 OR PD<20020909
)

=> d ibib abs 117 1-5

L17 ANSWER 1 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2003:152847 USPATFULL
 TITLE: Betaines as adjuvants to susceptibility testing and
 antimicrobial therapy
 INVENTOR(S): Thornton, Charles G., Damascus, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003104513	A1	20030605
APPLICATION INFO.:	US 2002-125647	A1	20020419 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-429614, filed on 29 Oct 1999, GRANTED, Pat. No. US 6406880 Continuation of Ser. No. WO 1998-US8760, filed on 1 May 1998, UNKNOWN		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-45512P	19970502 (60) <--
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STERNE, KESSLER, GOLDSTEIN & FOX PLLC, 1100 NEW YORK AVENUE, N.W., SUITE 600, WASHINGTON, DC, 20005-3934	
NUMBER OF CLAIMS:	143	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	56 Drawing Page(s)	
LINE COUNT:	4772	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is related to methods and compositions for
 susceptibility testing of bacteria containing mycolic acid structures
 using betaine-like detergents, and inducing the susceptibility of such
 bacteria using the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 2 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2002:144095 USPATFULL
 TITLE: Betaines as adjuvants to susceptibility testing and
 antimicrobial therapy
 INVENTOR(S): Thornton, Charles G., Gaithersburg, MD, United States
 PATENT ASSIGNEE(S): Integrated Research Technology, LLC, United States
 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6406880	B1	20020618 <--
APPLICATION INFO.:	US 1999-429614		19991029 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. WO 1998-US8760, filed on 1 May 1998		

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1997-45512P	19970502	(60) <--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Woodward, Michael P.		
ASSISTANT EXAMINER:	Moran, Marjorie A.		
LEGAL REPRESENTATIVE:	Sterne, Kessler, Goldstein & Fox P.L.L.C.		
NUMBER OF CLAIMS:	64		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	94 Drawing Figure(s); 55 Drawing Page(s)		
LINE COUNT:	4477		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is related to methods and compositions for susceptibility testing of bacteria containing mycolic acid structures using betaine-like detergents, and inducing the susceptibility of such bacteria using the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 3 OF 5 USPATFULL on STN

ACCESSION NUMBER: 1999:166812 USPATFULL
 TITLE: Method for processing mycobacteria
 INVENTOR(S): Thornton, Charles G., Gaithersburg, MD, United States
 PATENT ASSIGNEE(S): Integrated Research Technology, LLC, Baltimore, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6004771		19991221	<--
APPLICATION INFO.:	US 1997-907649		19970811	(8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1995-393564, filed on 23 Feb 1995, now patented, Pat. No. US 5658749 which is a continuation-in-part of Ser. No. US 1994-322864, filed on 11 Oct 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-224592, filed on 7 Apr 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-222731, filed on 5 Apr 1994, now abandoned			
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	Granted			
PRIMARY EXAMINER:	Leary, Louise N.			
LEGAL REPRESENTATIVE:	Sterne, Kessler, Goldstein & Fox, P.L.L.C.			
NUMBER OF CLAIMS:	48			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 26 Drawing Page(s)			
LINE COUNT:	7838			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the preparation of Mycobacteria from any liquid, semi solid or exotic source is described. The extracted Mycobacterial sample is suitable for detection by culture and amplification.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 97:73459 USPATFULL
 TITLE: Method for processing mycobacteria
 INVENTOR(S): Thornton, Charles G., Gaithersburg, MD, United States
 PATENT ASSIGNEE(S): Corning Clinical Laboratories, Inc., Baltimore, MD,

United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5658749		19970819 <--
APPLICATION INFO.:	US 1995-393564		19950223 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1994-322864, filed on 11 Oct 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-224592, filed on 7 Apr 1994, now abandoned which is a continuation-in-part of Ser. No. US 1994-222731, filed on 5 Apr 1994, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Kight, John		
ASSISTANT EXAMINER:	Leary, Louise		
LEGAL REPRESENTATIVE:	Sterne, Kessler, Goldstein & Fox p.l.l.c.		
NUMBER OF CLAIMS:	72		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	26 Drawing Figure(s); 26 Drawing Page(s)		
LINE COUNT:	8473		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the preparation of Mycobacteria from any liquid, semi-solid or exotic source is described. The extracted Mycobacterial sample is suitable for detection by culture and amplification.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L17 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 83:6815 USPATFULL
 TITLE: Nondenaturing zwitterionic detergents
 INVENTOR(S): Hjelmeland, Leonard M., Bethesda, MD, United States
 PATENT ASSIGNEE(S): The United States of America as represented by the Secretary of the Department of Health & Human Services, Washington, DC, United States (U.S. government)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4372888		19830208 <--
APPLICATION INFO.:	US 1981-294203		19810819 (6)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1980-181465, filed on 26 Aug 1980, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Roberts, Elbert L.		
LEGAL REPRESENTATIVE:	Roberts, Jr., John S.		
NUMBER OF CLAIMS:	6		
EXEMPLARY CLAIM:	1,6		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	356		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A nondenaturing zwitterionic detergent for proteins which, for example, consists of an effective amount of 3-[(3-chloamidopropyl)dimethylammonio]-1-propanesulfonate (CHAPS). This detergent is of extreme interest in the biological study of proteins due to its nondenaturing characteristic. Other examples of the group may be prepared from different alicyclic compounds, for example, utilizing cholic acid and in others deoxycholic acid and dehydroabiatic acid. A process for the preparation of these compounds starts with cholic or the equivalent and

from this is prepared the triethylammonium salt in tetrahydrofuran (THF). After the salt is completely dissolved in THF, ethyl chloroformate is added and the flask cooled to 0° C. Then the mixed anhydride which forms is reacted with dimethylaminopropylamine to form the dimethylaminopropyl derivative of a carboxylic acid amide. Finally, the tertiary amine group is reacted with propanesultone to give the sulfobetaine product.

An improved procedure for preparation of these compounds and especially for the last step (as for CHAPSO) to react the N-(3-dimethylaminopropyl)cholamide with sodium-1-chloro-2-hydroxy-3-propanesulfonate.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d que stat 125

L19 1336 SEA FILE=HCAPLUS ABB=ON ?STREPTOCOCC? ?MUTANS? AND (?IDENT?
OR ?DETERMIN?)
L20 78 SEA FILE=HCAPLUS ABB=ON L19 AND ?QUANT?
L21 26 SEA FILE=HCAPLUS ABB=ON L20 AND ?SALIVA?
L22 11 SEA FILE=HCAPLUS ABB=ON L21 AND ?METHOD?
L23 2 SEA FILE=HCAPLUS ABB=ON L21 AND KIT?
L24 11 SEA FILE=HCAPLUS ABB=ON L22 OR L23
L25 8 SEA FILE=HCAPLUS ABB=ON L24 AND (PRD<20020909 OR PD<20020909)

L25 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:582963 HCAPLUS

DOCUMENT NUMBER: 139:130417

TITLE: **Method** for extracting microbial antigen for immunoassay

INVENTOR(S): Ukaji, Fumio; Hirata, Koichiro; Hanyu, Naohiro

PATENT ASSIGNEE(S): Tokuyama Corp., Japan; Tokuyama Dental Corp.

SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003215126	A2	20030730	JP 2002-18905	20020128 <--
PRIORITY APPLN. INFO.:			JP 2002-18905	20020128 <--

AB A convenient **method** is provided for concentrating carbohydrate antigen-possessing microorganism (e.g., **Streptococcus mutans**, *Streptococcus sobrinus*) in a liquid to be extracted (e.g., **saliva**, tooth fossil), and extracting the carbohydrate antigen. The microorganism **quantity** in the liquid to be extracted is **detd** using the carbohydrate antigen extraction liquid obtained. A liquid to be extracted

potentially containing carbohydrate antigen-possessing microorganism is filtered with a filter, suitably with a filter with the pore size of 0.8-2µm, and the carbohydrate antigen is extracted by treating the microorganism held on the filter with an aqueous nitrous acid solution. The carbohydrate antigen **quantity** is **quantitated** by an immunoassay using an antibody capable of binding with the carbohydrate antigen.

=> d ibib abs 125 2-8

YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L25 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:978400 HCAPLUS

DOCUMENT NUMBER: 138:44804

TITLE: Pretreatment instrument for **identification** and **quantitation** of **Streptococcus mutans** in **saliva**

INVENTOR(S): Matsumoto, Yuko; Kobayashi, Yumiko; Okada, Junichi

PATENT ASSIGNEE(S): GC Corporation, Japan

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002197738	A1	20021226	US 2002-163614	20020607 <--
JP 2003004605	A2	20030108	JP 2001-188068	20010621
EP 1271124	A1	20030102	EP 2002-12385	20020606 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU 2002047549	A5	20030102	AU 2002-47549	20020614 <--
AU 782324	B2	20050721		

PRIORITY APPLN. INFO.: JP 2001-188068 A 20010621 <--

AB In a pretreatment instrument and a pretreatment **method** of **saliva**, used for **identification** and **quantitation** of **Streptococcus mutans** in **saliva** by the immunochromatog. **method** utilizing an antigen-antibody reaction, the instrument includes a swab and a mixing container for **saliva** and a treatment liquid, the swab having a stick and a soft synthetic resin-made sponge capable of absorbing a **predetd.** amount or more of **saliva**, and the mixing container being made of a transparent or translucent soft synthetic resin and comprising a bag-like portion formed integrally with and continuously to a constricted portion as the end of a tapering introduction portion having an opening thoroughly larger than the sponge, wherein the constricted portion and the bag-like portion have elasticity such that the sponge can be squashed by a finger pressure in a state that the sponge is inserted therein; the constricted portion has a width such that a pressure can be applied by fingers and has a shape such that when the sponge is taken out in a squashed state by the finger pressure, a min. amount necessary for the pretreatment or more of the **saliva** can be squeezed out.

L25 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:246828 HCAPLUS

DOCUMENT NUMBER: 137:2831

TITLE: Molecular analysis of bacterial species associated with childhood caries

AUTHOR(S): Becker, Mitzi R.; Paster, Bruce J.; Leys, Eugene J.; Moeschberger, Melvin L.; Kenyon, Sarah G.; Galvin, Jamie L.; Boches, Susan K.; Dewhirst, Floyd E.; Griffen, Ann L.

CORPORATE SOURCE: Department of Pediatric Dentistry, The Ohio State University, Columbus, OH, 43218-2357, USA

SOURCE: Journal of Clinical Microbiology (2002), 40(3), 1001-1009

CODEN: JCMIDW; ISSN: 0095-1137

PUBLISHER: American Society for Microbiology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Although substantial epidemiol. evidence links **Streptococcus mutans** to caries, the pathobiol. of caries may involve more complex communities of bacterial species. Mol. **methods** for bacterial **identification** and enumeration now make it possible to more precisely study the microbiota associated with dental caries. The purpose of this study was to compare the bacteria found in early childhood caries (ECC) to those found in caries-free children by using mol. **identification methods**. Cloning and sequencing of

bacterial 16S ribosomal DNAs from a healthy subject and a subject with ECC were used for **identification** of novel species or uncultivated phylotypes and species not previously associated with dental caries. Ten novel phylotypes were **identified**. A number of species or phylotypes that may play a role in health or disease were **identified** and warrant further investigation. In addition, **quant.** measurements for 23 previously known bacterial species or species groups were obtained by a reverse capture checkerboard assay for 30 subjects with caries and 30 healthy controls. Significant differences were observed for nine species: *S. sanguinis* was associated with health and, in order of decreasing cell nos., *Actinomyces gerencseriae*, *Bifidobacterium*, *S. mutans*, *Veillonella*, *S. salivarius*, *S. constellatus*, *S. parasanguinis*, and *Lactobacillus fermentum* were associated with caries. These data suggest that *A. gerencseriae* and other *Actinomyces* species may play an important role in caries initiation and that a novel *Bifidobacterium* may be a major pathogen in deep caries. Further investigation could lead to the **identification** of targets for biol. interventions in the caries process and thereby contribute to improved prevention of and treatment for this significant public health problem.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:326111 HCAPLUS

DOCUMENT NUMBER: 133:325439

TITLE: Effect of an essential oil-containing antiseptic mouthrinse on plaque and **salivary Streptococcus mutans** levels

AUTHOR(S): Fine, D. H.; Furgang, D.; Barnett, M. L.; Drew, C.; Steinberg, L.; Charles, C. H.; Vincent, J. W.

CORPORATE SOURCE: Dental Research Center, New Jersey Dental School, Newark, NJ, USA

SOURCE: Journal of Clinical Periodontology (2000), 27(3), 157-161

CODEN: JCPEDZ; ISSN: 0303-6979

PUBLISHER: Munksgaard International Publishers Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Background: Clin. studies in which antimicrobial mouthrinses were shown to have significant antiplaque activity most frequently have used gingivitis as the clin. relevant endpoint. However, there is evidence to suggest that mouthrinses containing active agents effective against *S. mutans*, such as chlorhexidine, may also have a role in inhibiting dental caries. This clin. study was conducted to **determine** the effect of 2+ daily rinsing with an essential oil-containing antiseptic mouthrinse (Listerine Antiseptic) on levels of recoverable *S. mutans* and total streptococci in supragingival interproximal plaque and in **saliva**. Addnl., a follow-up in vitro study is reported which **determined** whether a differential susceptibility to the antiseptic mouthrinse exists among different strains of streptococci. **Method:** Following baseline **saliva** and plaque sampling for **quantification** of recoverable *S. mutans* and total streptococci, 29 qualifying subjects were randomly assigned either the essential oil mouthrinse or a sterile water control. They rinsed with 20 mL for 30 s 2+ daily for 11 days and once on the 12th day, in addition to their usual oral hygiene procedures. On day 12, **saliva** and plaque samples were again collected and microbiol. **quantification** performed. The procedures were repeated with the alternate rinse after a 1-wk washout period. Results:

The essential oil mouthrinse produced resp. redns. of 69.9 and 75.4% in total recoverable streptococci and in *S. mutans* in plaque, and corresponding redns. of 50.8 and 39.2% in **saliva**. The in vitro study revealed that streptococci from the mutans group were more susceptible to the bactericidal activity of the essential oil mouthrinse than streptococci from the mitis group. Conclusions: As antimicrobial mouthrinses are most frequently recommended to patients whose mech. oral hygiene procedures are not adequate for the control of supragingival plaque and gingivitis, this study provides an addnl. rationale for the inclusion of the essential-oil mouthrinse as an adjunct to daily oral hygiene procedures.

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:761458 HCAPLUS

DOCUMENT NUMBER: 132:19597

TITLE: Probes and primers for the detection of common bacterial and fungal pathogens and antibiotic resistance genes in clinical specimens

INVENTOR(S): Bergeron, Michel G.; Picard, Francois J.; Ouellette, Marc; Roy, Paul H.

PATENT ASSIGNEE(S): Infectio Diagnostic, Inc., Can.

SOURCE: U.S., 142 pp., Cont.-in-part of U.S. Ser. No. 526,840. CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5994066	A	19991130	US 1996-743637	19961104 <--
US 6001564	A	19991214	US 1995-526840	19950911 <--
CA 2270281	AA	19980514	CA 1997-2270281	19971104 <--
WO 9820157	A2	19980514	WO 1997-CA829	19971104 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9748598	A1	19980529	AU 1997-48598	19971104 <--
AU 731850	B2	20010405		
EP 943009	A2	19990922	EP 1997-911094	19971104 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9713494	A	20000229	BR 1997-13494	19971104 <--
CN 1248295	A	20000322	CN 1997-180194	19971104 <--
NZ 335548	A	20010330	NZ 1997-335548	19971104 <--
JP 2001504330	T2	20010403	JP 1998-520907	19971104 <--
NO 9901976	A	19990702	NO 1999-1976	19990426 <--
AU 775763	B2	20040812	AU 2001-54221	20010704 <--
US 2003180733	A1	20030925	US 2002-121120	20020411 <--
US 2005042606	A9	20050224		
PRIORITY APPLN. INFO.:			US 1995-526840	A2 19950911 <--
			US 1994-304732	A2 19940912 <--

US 1996-743637 A 19961104 <--
 AU 1997-48598 A3 19971104 <--
 WO 1997-CA829 W 19971104 <--
 US 1999-452599 A1 19991201 <--

AB The present invention relates to a **method** for universal detection of bacteria in biol. samples and for specific detection of Escherichia coli, Klebsiella pneumoniae, Enterococcus faecalis, Pseudomonas aeruginosa, Proteus mirabilis, Staphylococcus saprophyticus, Streptococcus pneumoniae, Moraxella catarrhalis and Haemophilus influenzae in urine or any other biol. samples. The **method** comprising denaturation of bacterial DNA to single stranded form and either fixing it on a support or leaving it in solution, contacting said single stranded genetic material with a labeled probe selected from the group consisting of (i) fragments of chromosomal DNA of the above-mentioned bacteria and (ii) synthetic oligonucleotides whose sequences are derived either from the said fragments of chromosomal DNAs or from sequences available in data banks, all (i and ii) probes being capable to hybridize specifically to their chromosomal DNA or, in case of universal probes, to any bacterial chromosomal DNA. Probes and primers that can be used to **identify** and **quantify** DNA from the above species are disclosed. Similarly, reagents for detecting, **identifying**, and **quantifying** the antibiotic resistance genes: blatem, blarob, blashv, bla_{oxa}, bla_Z, aadB, aacC1, aacC2, aacC3, aacA4, aac6'-IIa, ermA, ermB, ermC, mecA, vanA, vanB, vanC, satA, aac(6'-aph(2")), aad(6'), vat, vga, msrA, sul and int are reported. The above microbial species, genera and resistance genes are all clin. relevant and commonly encountered in a variety of clin. specimens. These DNA-based assays are rapid, accurate and can be used in clin. microbiol. labs. for routine diagnosis. These novel diagnostic tools should be useful to improve the speed and accuracy of diagnosis of microbial infections, thereby allowing more effective treatments.

REFERENCE COUNT: 57 THERE ARE 57 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L25 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1992:527829 HCAPLUS

DOCUMENT NUMBER: 117:127829

TITLE: Immunoassay and **kits** for detecting and **quantifying** cariogenic bacteria

INVENTOR(S): Miyazaki, Toshitsugu; Matsuda, Yoko; Nakamura, Tsutomu; Ota, Fusao; Nishino, Mizuho

PATENT ASSIGNEE(S): Nagase and Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 496345	A1	19920729	EP 1992-100923	19920121 <--
EP 496345	B1	19960828		
R: DE, DK, GB, NL, SE				
JP 05005744	A2	19930114	JP 1991-227539	19910907 <--
JP 3093833	B2	20001003		
CA 2059690	AA	19920723	CA 1992-2059690	19920120 <--
PRIORITY APPLN. INFO.:			JP 1991-22858	A 19910122 <--
			JP 1991-227539	A 19910907 <--

AB In the title **method**, (1) **Streptococcus mutans** in a sample to be examined is reacted with ≥ 1 polyclonal or monoclonal antibody having a specific reactivity to the microorganism; (2) the antibody bound to the microorganism is separated from unbound antibody by filtration on a membrane filter; and (3) the bound antibody captured on the filter is detected by a suitable means. The **method** allows rapid and convenient detection of *S. mutans* with high sensitivity, without the need for selective cultivation of a sample before detection, and without the problem of decrease of survival rate of bacteria caused by time lag between sample collection and detection. **Kits** for performing the **method** are also disclosed. Standard curves for the **determination** are presented. *S. mutans* was detected in a **saliva** sample.

L25 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1988:109304 HCAPLUS

DOCUMENT NUMBER: 108:109304

TITLE: Effect of nutritional constraints on the biosynthesis of the components of the phosphoenolpyruvate:sugar phosphotransferase system in a fresh isolate of **Streptococcus mutans**

AUTHOR(S): Rodrigue, Lynda; Lacoste, Lucille; Trahan, Luc; Vadeboncoeur, Christian

CORPORATE SOURCE: Ec. Med. Dent., Univ. Laval, Ste-Foy, QC, G1K 7P4, Can.

SOURCE: Infection and Immunity (1988), 56(2), 518-22
CODEN: INFIBR; ISSN: 0019-9567

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A procedure for the purification of enzyme I (EI) and the protein HPr, the general components of the phosphoenolpyruvate:sugar phosphotransferase system, from *S. mutans* serotype c is presented. The **method** was also applied successfully to the purification of EI and HPr from *S. salivarius*, *S. sobrinus*, and *S. sanguis*. Using specific antibodies obtained against the proteins purified from *S. mutans* DR0001, cellular levels of EI and HPr were **determined quant.** by rocket electrophoresis in a freshly isolated strain of *S. mutans* grown under various conditions in continuous culture. The activity of a few specific EIIs was also **determined** by an in vitro phosphorylation test. Maximum EII activities for glucose, mannose, and 2-deoxyglucose were obtained under conditions of glucose limitation, at pH 7.0 and low dilution rate ($D = 0.057/h$). Increasing the amount of glucose or the dilution rate ($D = 0.40/h$) or decreasing the pH from 7.0 to 5.5 resulted in a 1.4- to 24-fold decrease in these activities. The EII activity for fructose was not influenced by the growth conditions in the same way as the other EIIs. The fructose EII was highest at pH 5.5 and at high dilution rate under conditions of glucose or nitrogen limitation and was always repressed at pH 7.0 and at low dilution rates. The intracellular levels of EI were also dependent on the growth conditions. The highest concentration (0.65 nmol/mg of protein) was observed in cells grown under glucose limitation at pH 7.0 and high dilution rate, and the lowest concentration (0.12 nmol/mg of protein) was found

in cells grown under glucose excess at pH 7.0 and high dilution rate. The other general component of the phosphoenolpyruvate:sugar phosphotransferase system, the protein HPr, was not influenced significantly by varying growth conditions.

L25 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1981:12366 HCAPLUS

DOCUMENT NUMBER: 94:12366
TITLE: The **determination** of various low-molecular-weight carboxylic acids in biological samples by isotachophoresis
AUTHOR(S): Van der Hoeven, J. S.; Franken, H. C. M.
CORPORATE SOURCE: Inst. Prevent. Community Dent., Univ. Nijmegen, Nijmegen, Neth.
SOURCE: Analytical Chemistry Symposia Series (1980), 5(Biochem. Biol. Appl. Isotachophoresis), 69-79
CODEN: ACSSDR; ISSN: 0167-6350
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Low-mol.-weight carboxylic acids were **determined** in biol. samples such as bacterial culture fluids, dental plaque, blood, serum, and **saliva** by isotachophoresis involving the simultaneous operation of both a UV and a conductivity detector. Isotachophoresis was performed in a 20-cm PTFE capillary (0.4-mm internal diameter). The leading electrolyte was buffered HCl, generally at a concentration of 2.5 mM and pH 3.9, containing 0.05% poly(vinyl alc.). The counterion was selected according to the desired pH, and its pKa was close to the pH of the electrolyte for maximum buffering capacity. Thus, when the pH of the leading electrolyte was 3.9, 4-aminobutyric acid (pKa 4.03) was used as the counterion. At pH 4.2 and 4.4, ϵ -aminocaproic acid (pKa 4.37) was used as the counter ion. The terminating electrolyte was 2.5 mM caproic acid buffered to pH 5.5 with Tris. Variation of the pH of the leading electrolyte resulted in changes in the effective mobilities and the migration rate of the ions. Thus, pH changes were applied to **identify** or confirm the **identity** of the ionic species. The anal. time was 8-12 min, depending on the sample. **Quant.** detns. were achieved by using a sep. calibration curve for each pH value. The resolution and reproducibility were satisfactory, and no internal stds. were necessary. There was a linear relation between the concentration of lactate in blood **determined** by isotachophoresis and enzymically. The advantages of the **method** are that no sample pretreatment is required and small amts. of sample can be used.

=> d que stat 130

L19 1336 SEA FILE=HCAPLUS ABB=ON ?STREPTOCOCC? ?MUTANS? AND (?IDENT?
OR ?DETERMIN?)
L20 78 SEA FILE=HCAPLUS ABB=ON L19 AND ?QUANT?
L21 26 SEA FILE=HCAPLUS ABB=ON L20 AND ?SALIVA?
L22 11 SEA FILE=HCAPLUS ABB=ON L21 AND ?METHOD?
L23 2 SEA FILE=HCAPLUS ABB=ON L21 AND KIT?
L24 11 SEA FILE=HCAPLUS ABB=ON L22 OR L23
L26 62 SEA L24
L27 39 DUP REMOV L26 (23 DUPLICATES REMOVED)
L28 4 SEA L27 AND ?CHROMATOG?
L29 5 SEA L27 AND ?IMMUNO?
L30 7 SEA L28 OR L29

=> d ibib abs 130

L30 ANSWER 1 OF 7 MEDLINE on STN
ACCESSION NUMBER: 81191059 MEDLINE
DOCUMENT NUMBER: PubMed ID: 7014466
TITLE: Interference of secretory **immunoglobulin A** with
sorption of oral bacteria to hydroxyapatite.
AUTHOR: Kilian M; Roland K; Mestecky J
CONTRACT NUMBER: AI 10854 (NIAID)
DE-02670 (NIDCR)
DE-52456 (NIDCR)
SOURCE: Infection and immunity, (1981 Mar) 31 (3) 942-51.
Journal code: 0246127. ISSN: 0019-9567.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 198107
ENTRY DATE: Entered STN: 19900316
Last Updated on STN: 20000303
Entered Medline: 19810720

AB The potential of secretory **immunoglobulin A** (S-IgA) to interfere with the initial phase of dental plaque formation was studied by using an in vitro **method** which permits the **quantitative determination** of the sorption of radiolabeled oral bacterial cells to hydroxyapatite (HA) beads. The importance of specific S-IgA antibodies was evaluated by a comparison of the effect of pure preparations of colostral S-IgA, polymeric myeloma IgA, or preabsorbed S-IgA. Specific antibody molecules bound at the HA surface significantly enhanced the sorption of two Streptococcus sanguis strains. In contrast, HA-bound S-IgA antibodies inhibited the sorption of Streptococcus mitior and Streptococcus **salivarius**. The same was true for **Streptococcus mutans** cells, but only when they were propagated in the absence of sucrose. Suspended in **saliva**, cells of all streptococcal species adhered in significantly lower numbers to HA. Comparative experiments with bacteria suspended in solutions of various preparations of IgA or **immunoglobulin-deficient salivas** with S-IgA or myeloma IgA added indicated that the adherence inhibition seen with S. Sanguis, S. mitior, S. **salivarius**, and glucose-grown S. mutans was partly attributable to functions of S-IgA antibodies. Under the in vitro conditions of the study, S-IgA antibodies had no effect on the sorption of sucrose-grown S. mutans, Actinomyces viscosus, and Actinomyces naeslundii to HA. The results indicated that S-IgA can interfere with the sorption of some oral bacteria to HA by several different functions.

=> d ibib abs 130 2-7

L30 ANSWER 2 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 ACCESSION NUMBER: 2004:409114 BIOSIS
 DOCUMENT NUMBER: PREV200400410206
 TITLE: **Salivary** IgA to cariogenic bacteria in
 HIV-positive children and its correlation with caries
 prevalence and levels of cariogenic microorganisms.
 AUTHOR(S): Castro, G. F.; Souza, I. P. R.; Lopes, S.; Stashenko, P.;
 Teles, R. P. [Reprint Author]
 CORPORATE SOURCE: Dept Periodontol, Forsyth Inst, 140 Fenway, Boston, MA,
 02115, USA
 rteles@forsyth.org
 SOURCE: Oral Microbiology and Immunology, (October 2004) Vol. 19,
 No. 5, pp. 281-288. print.
 ISSN: 0902-0055 (ISSN print).
 DOCUMENT TYPE: Article
 LANGUAGE: English
 ENTRY DATE: Entered STN: 20 Oct 2004
 Last Updated on STN: 20 Oct 2004

AB The interrelationship of HIV infection, dental caries and mucosal immune responses remains controversial. In our study population of 40 HIV-infected and 40 healthy control children (ages 2-5 years) there was a significantly higher prevalence of dental caries in HIV-infected children ($P < 0.05$). The extent of caries correlated with the severity of HIV disease. To **determine** whether the **immunosuppression** that ensues after HIV infection could contribute to the increased caries prevalence, the concentrations of total IgA and IgA specific to cariogenic bacteria (**Streptococcus mutans**, **Streptococcus sobrinus** and **Lactobacillus acidophilus**) were **determined** in whole **saliva** by enzyme-linked **immunosorbent** assay. Levels of the same bacteria were also **quantified** in **saliva** using checkerboard DNA-DNA hybridization. A significantly increased level of total **salivary** IgA was found in the HIV-positive population ($P < 0.05$), but there were comparable titers of specific IgA to cariogenic bacteria in HIV-positive and healthy controls. The microbiological assessment also demonstrated similar levels of cariogenic microorganisms in both groups. We conclude that HIV-positive children appear to maintain the capacity to mount a mucosal immune response to cariogenic microorganisms, at least until late stages of disease.

L30 ANSWER 3 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 ACCESSION NUMBER: 1999:78995 BIOSIS
 DOCUMENT NUMBER: PREV199900078995
 TITLE: A synthetic peptide adhesion epitope as a novel
 antimicrobial agent.
 AUTHOR(S): Kelly, Charles G. [Reprint author]; Younson, Justine S.;
 Hikmat, Ban Y.; Todryk, Stephen M.; Czigis, Michael; Haris,
 Parvez I.; Flindall, Ian R.; Newby, Craig; Mallet, Anthony
 I.; Ma, Julian K.-C.; Lehner, Thomas
 CORPORATE SOURCE: Dep. Immunol., United Med. Dent. Sch. Guy's Hosp., London
 SE1 9RT, UK
 SOURCE: Nature Biotechnology, (Jan., 1999) Vol. 17, No. 1, pp.
 42-47. print.
 ISSN: 1087-0156.
 DOCUMENT TYPE: Article
 LANGUAGE: English

ENTRY DATE: Entered STN: 1 Mar 1999
Last Updated on STN: 1 Mar 1999

AB The earliest step in microbial infection is adherence by specific microbial adhesins to the mucosa of the oro-intestinal, nasorespiratory, or genitourinary tract. We inhibited binding of a cell surface adhesin of **Streptococcus mutans** to **salivary** receptors in vitro, as measured by surface plasmon resonance, using a synthetic peptide (p1025) corresponding to residues 1025-1044 of the adhesin. Two residues within p1025 that contribute to binding (01025, E1037) were **identified** by site-directed mutagenesis. In an in vivo human streptococcal adhesion model, direct application of p1025 to the teeth prevented recolonization of *S. mutans* but not *Actinomyces*, as compared with a control peptide or saline. This novel antimicrobial strategy, applying competitive peptide inhibitors of adhesion, may be used against other microorganisms in which adhesins mediate colonization of mucosal surfaces.

L30 ANSWER 4 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 1993:362984 BIOSIS
DOCUMENT NUMBER: PREV199396048659
TITLE: Simultaneous **determination** of amoxycillin and dicloxacillin in capsules by potentiometric titrimetry and high-performance liquid **chromatography**.
AUTHOR(S): Abdel-Moety, Ezzat M. [Reprint author]; Abounassif, Mohammad A.; Gad-Kariem, El-Rasheed A.; Khattab, Nashaat A.
CORPORATE SOURCE: Pharmaceutical Chemistry Dep., Coll. Pharmacy, King Saud Univ., PO Box 2457, Riyadh-11451, Saudi Arabia
SOURCE: Talanta, (1993) Vol. 40, No. 6, pp. 811-817.
CODEN: TLNTA2. ISSN: 0039-9140.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 6 Aug 1993
Last Updated on STN: 8 Aug 1993

AB Direct potentiometric titration and two HPLC conditions for the simultaneous **determination** of amoxycillin and dicloxacillin in their capsules have been developed. One-run titration utilizing 0.05 M acet. HClO-4 enables the **quantification** of both antibiotics. The HPLC-separation could be undertaken on reversed phase, LiChrosorb RP-18 (10 μ m), and LiChrospher 100 RP-18 (5 μ m), columns by using mobile phases containing acetonitrile + 1% aq. acetic acid, in proportions of 47:53 or 39:61 (v/v), respectively, at a flow rate of 1.5 ml/min with UV-detection at 240 nm. Recoveries of the individual drugs by the application of each described **method** were found to be fairly satisfactory.

L30 ANSWER 5 OF 7 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 1977:133970 BIOSIS
DOCUMENT NUMBER: PREV197763028834; BA63:28834
TITLE: SELECTIVE ADSORPTION OF HETEROPHILE POLY GLYCERO PHOSPHATE ANTIGEN FROM ANTIGEN EXTRACTS OF **STREPTOCOCCUS-MUTANS** AND OTHER GRAM POSITIVE BACTERIA.
AUTHOR(S): HAMADA S; TAI S; SLADE H D
SOURCE: Infection and Immunity, (1976) Vol. 14, No. 4, pp. 903-910.
CODEN: INFIBR. ISSN: 0019-9567.
DOCUMENT TYPE: Article
FILE SEGMENT: BA
LANGUAGE: Unavailable

AB Hot saline extracts of *S. mutans* contain antigenic substances which occasionally react nonspecifically with some antisera against whole cells

of various serological groups and types of streptococci. **Chromatography** of the extract of *S. mutans* strain MT703 (serotype e) on a DEAE-Sephadex A-25 column gave 2 principal antigens. One antigen was eluted without adsorption to the resin and was **identified** as the serotype-specific polysaccharide. The other antigen, which contained a large **quantity** of P, was adsorbed to and released from the resin by gradient elution. It was reactive against the antisera specific for polyglycerophosphate (PGP) from group A *S. pyogenes* and/or *S. mutans* strain Ingbritt (type c). The PGP antigen was further purified by gel filtration with Sephadex G-75. Two peaks, PGP-1 and PGP-2, were obtained. Each possessed the same antigenic specificity to anti-PGP serum as shown by **immunodiffusion**. Chemical analyses revealed that the molar ratio of P to glycerol in both was about 1:1, although the protein content between the 2 was significantly different. PGP antigen was found to be widely distributed in hot saline extracts from various gram positive bacteria [*Streptococcus* spp. of Groups A,C,D,E,H,G,L,N and R, *S. sanguis*, *S. salivarius*, *S. bovis*, *S. mitis*, *Lactobacillus plantarum*, *L. casei*, *L. fermentum* and *Staphylococcus aureus*], with a few exception [*Actinomyces naeslundii*, *A. viscosus*, *Streptococcus* Group O, *Micrococcus luteus* and *M. citreus*]. All gram negative bacteria examined [*Proteus mirabilis*, *Escherichia coli*, *Serratia marcescens*, *Neisseria perflava*, *Leptotrichia buccalis* and *Fusobacterium nucleatum*] were free of PGP. The PGP in the hot saline extracts of various gram positive bacteria possessed an essentially **identifical** antigenic specificity. The addition of DEAE-Sephadex A-25 resin to hot saline extracts successfully removed the cross-reacting PGP antigen. After adsorption of the extract from *S. mutans*, the supernatant contained only type-specific polysaccharide antigen, except type b, in which type b-specific polysaccharide and PGP antigens were adsorbed with the resin. This simple procedure should be useful for the removal of the PGP-type teichoic acid from antigen extracts of bacteria that contain uncharged polysaccharides.

L30 ANSWER 6 OF 7 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 77173033 EMBASE

DOCUMENT NUMBER: 1977173033

TITLE: Latex spheres as **immunologic** markers to demonstrate the binding of human **salivary immunoglobulins** to **Streptococcus mutans**.

AUTHOR: Riviere G.R.; Cotton W.R.; Derkowski J.L.

CORPORATE SOURCE: Nav. Dent. Res. Inst., Great Lakes, Ill. 60088, United States

SOURCE: Journal of Dental Research, (1976) Vol. 55, No. 5, pp. 879-885.

CODEN: JDREAF

DOCUMENT TYPE: Journal

FILE SEGMENT: 037 Drug Literature Index
004 Microbiology
011 Otorhinolaryngology
026 Immunology, Serology and Transplantation

LANGUAGE: English

AB The results of this study indicate that latex beads can be used to **identify** specific antigen antibody interactions on the surface of bacterial cells. The application of a Labeling Index allowed specific interactions to be **quantitatively** distinguished from nonspecific latex bead attachments. The labeling indexes for latex beads absorbed to **antisalivary immunoglobulins** were significantly higher than for negative control indexes when tested against *S mutans* treated

with **saliva**. Conversely, there was no significant difference when they were tested against nonoral bacteria treated with **saliva**. This suggests that both whole and parotid human **saliva** contained specific antibodies against S mutans.

L30 ANSWER 7 OF 7 JICST-EPlus COPYRIGHT 2005 JST on STN
ACCESSION NUMBER: 920646383 JICST-EPlus
TITLE: Studies on Monoclonal Antibodies against
Streptococcus mutans Serotype e Strains.
AUTHOR: ONO MIWAKO
CORPORATE SOURCE: Kyushu Dental College
SOURCE: Kyushu Shika Gakkai Zasshi (Journal of the Kyushu Dental
Society), (1992) vol. 46, no. 4, pp. 547-557. Journal Code:
F0834A (Fig. 8, Tbl. 4, Ref. 34)
CODEN: KSGZA3; ISSN: 0368-6833
PUB. COUNTRY: Japan
DOCUMENT TYPE: Journal; Article
LANGUAGE: Japanese
STATUS: New

AB Monoclonal antibody-secreting hybridomas were produced by fusing myeloma cells (SP2/0-Agl 4) with spleen cells taken from mice (BALB/c) which had been immunized with **Streptococcus mutans** (serotype e) whole cells. Antigen was extracted by autoclaving the cells of S. mutans (serotype e) in saline solution and purified on DEAE-Sephadex A-25, Sephadex G-200 and CM-Sephadex C-25 columns. The purified polysaccharide antigen consisted of rhamnose (69.6%) and glucose (30.4%) when **determined** by gas **chromatography**. Nine monoclonal antibodies reacting with the serotype e strains of S. mutans were examined **immunologically** for their specificity against crude and purified polysaccharide antigen preparations of the strains and whole cells of various members of the mutans group of streptococci. The **immunological methods** included **immunodiffusion** in gel, **quantitative** precipitin reactions, radioimmunoassay and enzyme **immunoassay**. Two monoclonal antibodies, S3-9 and S3-17 reacted in these **immunological** reactions not only with whole cells of serotype e strains of S. mutans but also with the antigen preparations from these strains. It was revealed in competitive **quantitative** precipitin reactions that among varying haptenic sugars tested beta-methyl-D-glucopyranoside and cellobiose had a marked inhibitory effect on the reactions whereas maltose did not have the effect. It was also shown by enzyme **immunoassay** that monoclonal antibody S3-9 did not react with whole cells of four strains of S. mitis, two strains of S. **salivarius** and four strains of S. sanguis. (abridged author abst.)

=> d que stat 135

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L19      1336 SEA FILE=HCAPLUS ABB=ON  ?STREPTOCOCC? ?MUTANS? AND (?IDENT?
          OR ?DETERMIN?)
L20      78 SEA FILE=HCAPLUS ABB=ON   L19 AND ?QUANT?
L21      26 SEA FILE=HCAPLUS ABB=ON   L20 AND ?SALIVA?
L22      11 SEA FILE=HCAPLUS ABB=ON   L21 AND ?METHOD?
L23       2 SEA FILE=HCAPLUS ABB=ON   L21 AND KIT?
L24      11 SEA FILE=HCAPLUS ABB=ON   L22 OR L23
L25       8 SEA FILE=HCAPLUS ABB=ON   L24 AND (PRD<20020909 OR PD<20020909)
L32     186 SEA FILE=USPATFULL ABB=ON  L25 AND ?CHROMATOG?
L33     144 SEA FILE=USPATFULL ABB=ON  L32 AND ?IMMUNO?
L34      39 SEA FILE=USPATFULL ABB=ON  L33 AND ?ANTIGEN?(W)?ANTIBOD?
L35      11 SEA FILE=USPATFULL ABB=ON  L34 AND ?MUCIN?
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=> d ibib abs 135 1-11

L35 ANSWER 1 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2005:158196 USPATFULL

TITLE: Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics

INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, UNITED STATES
Bush, David, Somerville, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005136404	A1	20050623
APPLICATION INFO.:	US 2003-617320	A1	20030710 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-107433, filed on 30 Jun 1998, PENDING		

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1997-51553P	19970702 (60)	<--
	US 1998-85131P	19980512 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	Robert L. Spadafora, Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA, 02453, US		
NUMBER OF CLAIMS:	28		
EXEMPLARY CLAIM:	1		
LINE COUNT:	12957		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated polypeptide and nucleic acid sequences derived from Streptococcus pneumonia that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and **methods** for the production of the polypeptides. The invention also provides **methods** for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 2 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2004:250212 USPATFULL

TITLE: Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics

INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, United States

PATENT ASSIGNEE(S): Bush, David, Somerville, MA, United States
Genome Therapeutics Corporation, Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6800744	B1	20041005	
APPLICATION INFO.:	US 1998-107433		19980630	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1998-85131P	19980512	(60) <--
	US 1997-51553P	19970702	(60) <--

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
ASSISTANT EXAMINER: Zhou, Shubo "Joe "
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 11545
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated polypeptide and nucleic acid sequences derived from Streptococcus pneumonia that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and **methods** for the production of the polypeptides. The invention also provides **methods** for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 3 OF 11 USPATFULL on STN
ACCESSION NUMBER: 2004:57030 USPATFULL
TITLE: Vaccine
INVENTOR(S): McKenzie, Ian Farquhar Campbell, Brunswick, AUSTRALIA
Pietersz, Geoffrey Allan, Greensborough, AUSTRALIA
Cheers, Christina, Sunbury, AUSTRALIA
Stambas, John, Footscray, AUSTRALIA

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2004043032	A1	20040304	
APPLICATION INFO.:	US 2003-297256	A1	20030512	(10)
	WO 2001-AU669		20010606	

	NUMBER	DATE	
PRIORITY INFORMATION:	AU 2000-7977	20000606	<--

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NATH & ASSOCIATES, 1030 15th STREET, 6TH FLOOR, WASHINGTON, DC, 20005
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 15 Drawing Page(s)
LINE COUNT: 1643
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a **method** of immunising a subject comprising the step of administering a composition comprising an antigen and a carbohydrate polymer comprising mannose to a mucosal site of the subject, **methods** of use of the composition for vaccination and sterilization and use of the composition in manufacturing a medicament.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 4 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2003:240330 USPATFULL
 TITLE: Nucleic acid and amino acid sequences relating to Enterococcus faecalis for diagnostics and therapeutics
 INVENTOR(S): Doucette-Stamm, Lynn A., 14 Flanagan Dr., Framingham, MA, United States 01701
 Bush, David, 205 Holland St., Somerville, MA, United States 02144

	NUMBER	KIND	DATE	

PATENT INFORMATION:	US 6617156	B1	20030909	
APPLICATION INFO.:	US 1998-134000		19980813	(9)
	NUMBER	DATE		

PRIORITY INFORMATION:	US 1997-55778P	19970815	(60)	<--
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	GRANTED			
PRIMARY EXAMINER:	Mosher, Mary E.			
LEGAL REPRESENTATIVE:	Genome Therapeutics Corporation			
NUMBER OF CLAIMS:	19			
EXEMPLARY CLAIM:	1,5,14			
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)			
LINE COUNT:	13738			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated polypeptide and nucleic acid sequences derived from Enterococcus faecalis that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and **methods** for the production of the polypeptides. The invention also provides **methods** for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 5 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2003:169096 USPATFULL
 TITLE: Nucleic acid sequences and expression system relating to Enterococcus faecium for diagnostics and therapeutics
 INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, United States
 Bush, David, Somerville, MA, United States
 PATENT ASSIGNEE(S): Genome Therapeutics Corporation, Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE	

PATENT INFORMATION:	US 6583275	B1	20030624	
APPLICATION INFO.:	US 1998-107532		19980630	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1998-85598P	19980514 (60)	<--
	US 1997-51571P	19970702 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Marschel, Ardin H.		
LEGAL REPRESENTATIVE:	Genome Therapeutics Corporation		
NUMBER OF CLAIMS:	34		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	15265		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	The invention provides isolated polypeptide and nucleic acid sequences derived <i>Enterococcus faecium</i> that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 6 OF 11 USPATFULL on STN
 ACCESSION NUMBER: 2003:165967 USPATFULL
 TITLE: Diagnostic assays for **determination** of dental caries susceptibility
 INVENTOR(S): Gregory, Richard L., Carmel, IN, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003113823	A1	20030619
APPLICATION INFO.:	US 2002-268017	A1	20021009 (10)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2001-328537P	20011011 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	FULLBRIGHT & JAWORSKI L.L.P., 600 CONGRESS AVE., SUITE 2400, AUSTIN, TX, 78701		
NUMBER OF CLAIMS:	59		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	7 Drawing Page(s)		
LINE COUNT:	1834		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	The invention overcomes the limitations of the prior art by providing rapid assays for predicting the likelihood of caries development in patients. The assays allow implementation of appropriate dental care measures during a patient visit depending on the results of the assay. The assay utilizes the finding that caries-free children and adults have significantly higher levels of naturally occurring protective salivary IgA antibody to <i>S. mutans</i> than caries-active subjects. The assays are carried out using patient saliva . The speed and ease of use of the assay allows dental practitioners to assess at an early stage the relative risk of future caries formation. With this information, preventive methods may be applied only to those determined to be at risk.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 7 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2003:130010 USPATFULL

TITLE: Nucleic acid and amino acid sequences relating to
Acinetobacter baumannii for diagnostics and
therapeutics

INVENTOR(S): Breton, Gary, Marlborough, MA, United States

Bush, David, Somerville, MA, United States

PATENT ASSIGNEE(S): Genome Therapeutics Corporation, Waltham, MA, United
States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6562958	B1	20030513
APPLICATION INFO.:	US 1999-328352		19990604 (9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1998-88701P	19980609 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Borin, Michael		
LEGAL REPRESENTATIVE:	Genome Therapeutics Corporation		
NUMBER OF CLAIMS:	15		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)		
LINE COUNT:	16618		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides isolated polypeptide and nucleic acid sequences derived from Acinetobacter mirabilis that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and **methods** for the production of the polypeptides. The invention also provides **methods** for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 8 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:344011 USPATFULL

TITLE: Pretreatment instrument of **saliva** and
pretreatment **method** of **saliva**

INVENTOR(S): Matsumoto, Yuko, Tokyo, JAPAN

Kobayashi, Yumiko, Tokyo, JAPAN

Okada, Junichi, Tokyo, JAPAN

PATENT ASSIGNEE(S): GC Corporation, Tokyo, JAPAN (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002197738	A1	20021226
APPLICATION INFO.:	US 2002-163614	A1	20020607 (10)

	NUMBER	DATE	
PRIORITY INFORMATION:	JP 2001-188068	20010621	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC, FOURTH		

FLOOR, 1755 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA,
22202

NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 3 Drawing Page(s)
LINE COUNT: 780

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In a pretreatment instrument and a pretreatment **method** of **saliva**, used for **identification** and **quantitation** of **Streptococcus mutans** in **saliva** by the **immunochromatographic method** utilizing an **antigen-antibody** reaction, the instrument includes a swab and a mixing container for **saliva** and a treatment liquid, the swab having a stick and a soft synthetic resin-made sponge capable of absorbing a **predetermined** amount or more of **saliva**, and the mixing container being made of a transparent or translucent soft synthetic resin and comprising a bag-like portion formed integrally with and continuously to a constricted portion as the end of a tapering introduction portion having an opening thoroughly larger than the sponge, wherein the constricted portion and the bag-like portion have elasticity such that the sponge can be squashed by a finger pressure in a state that the sponge is inserted therein; the constricted portion has a width such that a pressure can be applied by fingers and has a shape such that when the sponge is taken out in a squashed state by the finger pressure, a minimum amount necessary for the pretreatment or more of the **saliva** can be squeezed out.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 9 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2002:66608 USPATFULL
TITLE: Compositions for controlling bacterial colonization
INVENTOR(S): Budny, John A., Westlake Village, CA, UNITED STATES
Budny, Matthew J., Westlake Village, CA, UNITED STATES

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002037259	A1	20020328	<--
APPLICATION INFO.:	US 2000-735281	A1	20001211	(9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-249674, filed on 12 Feb 1999, GRANTED, Pat. No. US 6159447			
	Continuation-in-part of Ser. No. US 1997-951393, filed on 16 Oct 1997, GRANTED, Pat. No. US 5871714			
DOCUMENT TYPE:	Utility			
FILE SEGMENT:	APPLICATION			
LEGAL REPRESENTATIVE:	COLIN P ABRAHAMS, 5850 CANOGA AVENUE, SUITE 400, WOODLAND HILLS, CA, 91367			
NUMBER OF CLAIMS:	47			
EXEMPLARY CLAIM:	1			
NUMBER OF DRAWINGS:	1 Drawing Page(s)			
LINE COUNT:	1282			

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition for controlling bacterial growth/colonization is provided. The composition comprises a selected enzyme, a selected anchor molecule coupled to the enzyme to form an enzyme-anchor complex, with the anchor being capable of attaching to a substrate proximal to a bacterial colony. The attachment to the substrate permits prolonged retention time of the enzyme-anchor complex where the bacterial colony is present to

increase the effectiveness of the complex. The invention is also for a **method** of controlling colonization of bacterial plaque in the oral cavity, as well as a **method** of forming a composition for controlling the proliferation of bacterial colonies in the oral cavity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 10 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2001:131283 USPATFULL

TITLE: Compounds for altering cell surface sialic acids and **methods** of use therefor

INVENTOR(S): Schnaar, Ronald L., 9094 Goldamber Garth, Columbia, MD, United States 21045
Ichikawa, Yoshitak, 7519 Stream Crossing Rd., Baltimore, MD, United States 21209
Collins, Brian E., 109C Dumbarton Rd., Baltimore, MD, United States 21212
Fralich, Thomas J., 3501 St. Paul St., Baltimore, MD, United States 21218

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6274568	B1	20010814	<--
APPLICATION INFO.:	US 1999-370074		19990806 (9)	

	NUMBER	DATE	
PRIORITY INFORMATION:	US 1998-95493P	19980806 (60)	<--
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Gitomer, Ralph		
ASSISTANT EXAMINER:	Khare, Devesh		
LEGAL REPRESENTATIVE:	Fish & Richardson P.C.		
NUMBER OF CLAIMS:	19		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	14 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	1474		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is based on the **identification** of compounds in the form of biosynthetic precursors which can be used to modulate neuronal growth, inhibit cellular entry by pathogens and modulate immune responses. The invention further describes acylated mannosamines, and derivatives thereof, which can be used to alter the sialic acid substituents of sialoglycoconjugates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L35 ANSWER 11 OF 11 USPATFULL on STN

ACCESSION NUMBER: 2000:167495 USPATFULL

TITLE: Compositions for controlling bacterial colonization

INVENTOR(S): Budny, John A., Westlake Village, CA, United States
Budny, Matthew J., Westlake Village, CA, United States

PATENT ASSIGNEE(S): PharmaCal Biotechnologies, LLC, Westlake Village, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 6159447		20001212	<--
APPLICATION INFO.:	US 1999-249674		19990212 (9)	

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-951393, filed
on 16 Oct 1997, now patented, Pat. No. US 5871714,
issued on 16 Feb 1999

DOCUMENT TYPE: Utility

FILE SEGMENT: Granted

PRIMARY EXAMINER: Weddington, Kevin E.

LEGAL REPRESENTATIVE: Abrahams, Colin P.

NUMBER OF CLAIMS: 47

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Figure(s); 1 Drawing Page(s)

LINE COUNT: 1272

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A composition for controlling bacterial growth/colonization is provided.
The composition comprises a selected enzyme, a selected anchor molecule
coupled to the enzyme to form an enzyme-anchor complex, with the anchor
being capable of attaching to a substrate proximal to a bacterial
colony. The attachment to the substrate permits prolonged retention time
of the enzyme-anchor complex where the bacterial colony is present to
increase the effectiveness of the complex. The invention is also for a
method of controlling colonization of bacterial plaque in the
oral cavity, as well as a **method** of forming a composition for
controlling the proliferation of bacterial colonies in the oral cavity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his ful

(FILE 'HOME' ENTERED AT 15:02:56 ON 06 SEP 2005)

FILE 'HCAPLUS' ENTERED AT 15:03:07 ON 06 SEP 2005

E TACHINO ATSUSHI/AU

L1 1 SEA ABB=ON "TACHINO ATSUSHI"/AU
L2 ANALYZE L1 1 CT : 17 TERMS

FILE 'REGISTRY' ENTERED AT 15:10:35 ON 06 SEP 2005

L3 1 SEA ABB=ON SODIUM HYDROXIDE/CN
L4 2 SEA ABB=ON (TARTARIC ACID OR CITRIC ACID)/CN
L5 0 SEA ABB=ON STREPTOCOCCI MUTANS/CN
E STREPTOCOCCI MUTANS/CN
E STREPTOCOCCUS MUTANS/CN
E CHAPS/CN
L6 2 SEA ABB=ON (CHAPS/CN OR CHAPSO/CN)

FILE 'HCAPLUS' ENTERED AT 15:11:51 ON 06 SEP 2005

L7 2147 SEA ABB=ON (L3 OR ?SODIUM?(W)?HYDROXIDE?) AND (L4 OR (?TARTARI
C? OR ?CITRIC?) (W)?ACID?)
L8 5 SEA ABB=ON L7 AND (L6 OR ?CHAPS? OR ?CHAPSO?)
D AU 1-5
L9 10 SEA ABB=ON L7 AND (?PRETREAT? OR ?TEST?) (W)KIT?
L10 13 SEA ABB=ON L8 OR L9
L11 1 SEA ABB=ON L9 AND ?SALIVA? *1 cit from CA Plus*

FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 15:13:54 ON
06 SEP 2005

L12 1 SEA ABB=ON L11 *1 cit from above database*

FILE 'USPATFULL' ENTERED AT 15:14:33 ON 06 SEP 2005

L13 195 SEA ABB=ON L6
L14 19 SEA ABB=ON L13 AND ?SURF? (W)?ACTIV?

FILE 'REGISTRY' ENTERED AT 15:15:34 ON 06 SEP 2005

E TRIS (HYDROXYMETHYL)AMINOMETHANE)/CN
L15 0 SEA ABB=ON L14 AND ?AMPHOTER?

FILE 'USPATFULL' ENTERED AT 15:19:17 ON 06 SEP 2005

L16 6 SEA ABB=ON L14 AND ?AMPHOTER?
L17 5 SEA ABB=ON L16 AND (PRD<20020909 OR PD<20020909) *5 cit from US Patfull*

FILE 'HCAPLUS' ENTERED AT 15:46:10 ON 06 SEP 2005

L18 4 SEA ABB=ON STREPTOCOCCI MUTANS AND (?IDENT? OR ?DETERMIN?)
L19 1336 SEA ABB=ON ?STREPTOCOCC? ?MUTANS? AND (?IDENT? OR ?DETERMIN?)
L20 78 SEA ABB=ON L19 AND ?QUANT?
L21 26 SEA ABB=ON L20 AND ?SALIVA?
L22 11 SEA ABB=ON L21 AND ?METHOD?
L23 2 SEA ABB=ON L21 AND KIT?
L24 11 SEA ABB=ON L22 OR L23
L25 8 SEA ABB=ON L24 AND (PRD<20020909 OR PD<20020909) *8 cit from CAPLUS*

FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 15:48:58 ON
06 SEP 2005

L26 62 SEA ABB=ON L24
L27 39 DUP REMOV L26 (23 DUPLICATES REMOVED)
L28 4 SEA ABB=ON L27 AND ?CHROMATOG?
L29 5 SEA ABB=ON L27 AND ?IMMUNO?

kit

S. mutans ident.

=> d ibib abs ind ll 1

L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2004:200141 HCAPLUS
 DOCUMENT NUMBER: 140:232110
 TITLE: Pretreatment kit for saliva and pretreatment method
 for saliva for determination of mutans streptococci
 via immunochromatography
 INVENTOR(S): Tachino, Atsushi
 PATENT ASSIGNEE(S): GC Corporation, Japan
 SOURCE: Eur. Pat. Appl., 19 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1396726	A1	20040310	EP 2003-18719	20030825
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2004101345	A2	20040402	JP 2002-262838	20020909
US 2004106096	A1	20040603	US 2003-645540	20030822
NZ 528008	A	20050324	NZ 2003-528008	20030903
CN 1492230	A	20040428	CN 2003-159144	20030909

PRIORITY APPLN. INFO.: JP 2002-262838 A 20020909
 AB A pretreatment kit and a pretreatment method for saliva in identification
 and quant. determination of mutans streptococci by immunochromatog. utilizing
 an
 antigen-antibody reaction, which can remove aggregation caused by mucin
 and chain formation of mutans streptococci in saliva in a simple operation
 and can efficiently flow out a complex of a labeled antibody and mutans
 streptococci from a porous membrane retaining the labeled antibody,
 contains (A) a 0.01 to 10 mol/L aqueous solution of sodium hydroxide, (B) a
 0.01
 to 3 mol/L aqueous solution of tartaric acid and/or citric acid, and (C) a
 nonionic surface active agent and/or an amphoteric surface active agent,
 in which the component (C) is mixed with the components (A) and/or (B), or
 is provided sep., and at least one substance selected from the particular
 metallic salts is contained in at least one of the components (A), (B) and
 (C) in an amount of 5 to 25% by weight
 IC ICM G01N033-84
 ICS G01N033-569
 CC 9-10 (Biochemical Methods)
 Section cross-reference(s): 10, 14
 ST pretreatment kit saliva detn mutans streptococci immunochromatog
 IT Reaction
 (Antigen-antibody; pretreatment kit for saliva and pretreatment method
 for saliva for determination of mutans streptococci via immunochromatog.)
 IT Surfactants
 (amphoteric; pretreatment kit for saliva and pretreatment method for
 saliva for determination of mutans streptococci via immunochromatog.)
 IT Immunoassay
 (immunoabsorption chromatog.; pretreatment kit for saliva and
 pretreatment method for saliva for determination of mutans streptococci via
 immunochromatog.)
 IT Antibodies and Immunoglobulins
 RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)

(labeled; pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatog.)

IT Surfactants
(nonionic; pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatog.)

IT Membranes, nonbiological
(porous; pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatog.)

IT Aggregation
Concentration (condition)
Flow
Mixing
Mixtures
Saliva
Solutions
Streptococcus mutans
Test kits
Weight
(pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatog.)

IT Mucins
Salts, analysis
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatog.)

IT 77-86-1, Tris(hydroxymethyl)aminomethane 77-92-9, Citric acid, analysis
87-69-4, Tartaric acid, analysis 1310-73-2, Sodium hydroxide, analysis
7447-40-7, Potassium chloride, analysis 7487-88-9, Magnesium sulfate, analysis
7647-14-5, Sodium chloride, analysis 7785-87-7, Manganese sulfate
7786-30-3, Magnesium chloride, analysis 9005-65-6, Polyoxyethylene sorbitan monooleate
9016-45-9, Non-ylphenoxypolyethoxyethanol 9036-19-5, Polyethylene glycol monooctyl
phenyl ether 10043-52-4, Calcium chloride, analysis 29836-26-8, n-Octyl- β -D-glucoside
75621-03-3, CHAPS 82473-24-3, CHAPSO 85618-20-8 85618-21-9
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(pretreatment kit for saliva and pretreatment method for saliva for determination of mutans streptococci via immunochromatog.)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30

7 SEA ABB=ON L28 OR L29

7 cit's from above d.b.'s

FILE 'HCAPLUS' ENTERED AT 15:50:44 ON 06 SEP 2005

L31

2 SEA ABB=ON L25 AND ?CHROMATOG?

FILE 'USPATFULL' ENTERED AT 15:50:58 ON 06 SEP 2005

L32

186 SEA ABB=ON L25 AND ?CHROMATOG?

L33

144 SEA ABB=ON L32 AND ?IMMUNO?

L34

39 SEA ABB=ON L33 AND ?ANTIGEN? (W) ?ANTIBOD?

L35

11 SEA ABB=ON L34 AND ?MUCIN?

11 cit's from USPatfull

FILE HOME

FILE HCAPLUS

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FILE COVERS 1907 - 6 Sep 2005 VOL 143 ISS 11

FILE LAST UPDATED: 5 Sep 2005 (20050905/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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STRUCTURE FILE UPDATES: 5 SEP 2005 HIGHEST RN 862458-90-0

DICTIONARY FILE UPDATES: 5 SEP 2005 HIGHEST RN 862458-90-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*

* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *

*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

FILE MEDLINE

FILE LAST UPDATED: 3 SEP 2005 (20050903/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow prompt (=>). See also:

<http://www.nlm.nih.gov/mesh/>
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 31 August 2005 (20050831/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE

FILE COVERS 1974 TO 1 Sep 2005 (20050901/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE JAPIO

FILE LAST UPDATED: 5 SEP 2005 <20050905/UP>

FILE COVERS APR 1973 TO APRIL 28, 2005

<<< GRAPHIC IMAGES AVAILABLE >>>

FILE JICST-EPLUS

FILE COVERS 1985 TO 22 AUG 2005 (20050822/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 6 Sep 2005 (20050906/PD)

FILE LAST UPDATED: 6 Sep 2005 (20050906/ED)

HIGHEST GRANTED PATENT NUMBER: US6941576

HIGHEST APPLICATION PUBLICATION NUMBER: US2005193458

CA INDEXING IS CURRENT THROUGH 6 Sep 2005 (20050906/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 6 Sep 2005 (20050906/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Jun 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2005

>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<

>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<

This file contains CAS Registry Numbers for easy and accurate
substance identification.